TEMPORARY SHORING LOCATION NO 1 (SEE TMP-4)

FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.

TEMPORARY SHORING IS REQUIRED FOR THE END BENT INSTALLATION FROM STATION -L- 21+03+/-, 25' RT, TO STATION -L- 21+25+/-, 25′ RT.

BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.

DESIGN TEMPORARY SHORING FROM STATION -L- 21+03+/-, 25' RT, TO STATION -L- 21+25+/-, 25' RT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

UNIT WEIGHT (γ) = 120 LB/CF FRICTION ANGLE (ϕ) = 30 DEGREES COHESION (c) = 0 LB/SF GROUNDWATER ELEVATION = 664 FT

LIMITED SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF TEMPORARY SHORING FROM STATION -L- 21+03+/-, 25' RT, TO STATION -L- 21+25+/-, 25' RT. THE INFORMATION PROVIDED FOR TEMPORARY SHORING DESIGN WAS ASSUMED AND MAY NOT BE APPLICABLE TO THE ACTUAL SITE CONDITIONS ENCOUNTERED DURING CONSTRUCTION.

DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -L- 21+03+/-, 25' RT, TO STATION -L- 21+25+/-, 25' RT.

AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY SHORING FOR TEMPORARY SHORING FROM STATION -L- 21+03+/-, 25'RT, TO STATION -L- 21+25+/-, 25'RT. SEE STANDARD DETAIL NO. 1801.01 FOR STANDARD TEMPORARY SHORING.

IT MAY BE PREFERRED TO USE A TEMPORARY SOIL NAIL WALL FOR TEMPORARY SHORING FROM STATION -L- 21+03+/-, 25' RT, TO STATION -L- 21+25+/-, 25' RT. FOR TEMPORARY SOIL NAIL WALLS, SEE TEMPORARY SOIL NAIL WALLS PROVISION.

> THE TEMPORARY SHORING NOTES SHOWN ON THIS SHEET WERE PROVIDED THROUGH A SEALED DOCUMENT FROM THE NCDOT GEOTECHNICAL ENGINEERING UNIT. THE DOCUMENT WAS SUBMITTED TO THE WZTC SECTION IN A MEMO DATED JANUARY 17, 2017 AND SEALED BY A PROFESSIONAL ENGINEER, SHIPING YANG, PH.D., P.E., LICENSE # 031361.

TEMPORARY SHORING DATA

TEMPORARY SHORING LOCATION NO 2 (SEE TMP-5)

FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION

TEMPORARY SHORING IS REQUIRED FOR THE END BENT INS FROM STATION -L- 22+79+/-, 27' RT, TO STATION -L-27′ RT.

BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONS SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.

DESIGN TEMPORARY SHORING FROM STATION -L- 22+79+/ TO STATION -L- 22+99+/-, 27' RT, FOR THE FOLLOWING SOIL PARAMETERS AND GROUNDWATER ELEVATION:

UNIT WEIGHT (γ) = 120 LB/CF FRICTION ANGLE (ϕ) = 30 DEGREES COHESION (c) = 0 LB/SF GROUNDWATER ELEVATION = 666 FT

LIMITED SUBSURFACE INFORMATION IS AVAILABLE IN THE OF TEMPORARY SHORING FROM STATION -L- 22+79+/-, 27 STATION -L- 22+99+/-, 27' RT. THE INFORMATION PROV TEMPORARY SHORING DESIGN WAS ASSUMED AND MAY NOT APPLICABLE TO THE ACTUAL SITE CONDITIONS ENCOUNTER CONSTRUCTION.

DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING STATION -L- 22+79+/-, 27' RT, TO STATION -L- 22+99

AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY FOR TEMPORARY SHORING FROM STATION -L- 22+79+/-, STATION -L- 22+99+/-, 27' RT. SEE STANDARD DETAIL FOR STANDARD TEMPORARY SHORING.

IT MAY BE PREFERRED TO USE A TEMPORARY SOIL NAIL TEMPORARY SHORING FROM STATION -L- 22+79+/-, 27' R STATION -L- 22+99+/-, 27' RT. FOR TEMPORARY SOIL N SEE TEMPORARY SOIL NAIL WALLS PROVISION.

	DocuSigned by:
APPROVE	D: Samuel D. Coleman
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DATE:	3/21/2017
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